

ABSTRACT

A double pneumatic acting valve includes a default neutral state so that the valve seats remain open when not in use, which prevents gluing of the valve seats in the closed position. The valve can be used in a medical device coating application unit, which is adapted to apply a coating solution (i.e., a solution or suspension that contains an organic liquid or an aqueous-organic liquid as well as a polymer, a pharmaceutical additive, or both a polymer and a pharmaceutical additive) to a medical device. The three-way valve is in fluid communication with a reservoir containing the coating solution. An outlet is provided for applying the coating to the medical device. A receptacle is included for withdrawing the coating solution from the reservoir when the valve is in a first position and for expelling the withdrawn the coating solution through the outlet port when the valve is in a second position. The valve includes two tubing connections coupled to two pneumatically actuated valves. The first valve includes a first pneumatically actuated plunger, and is coupled to one of the tubing connections. The second valve includes a second pneumatically actuated plunger, and is coupled to the other tubing connection. The second plunger is disposed opposite the first plunger.